

Amendments to the Specification:

At page one, after the title and before the first sentence, please insert the following paragraph:

--This application is a continuation of International Patent Application Serial No. PCT/NL02/00065, filed on January 29, 2002; which claims priority from European patent application number 01200329.9, filed January 30, 2001; both of which are hereby incorporated herein by reference.--

Beginning at page 8, line 1, please replace the first paragraph with the following paragraph:

A wide variety of bioactive agents may be incorporated by employing a method according to the invention. Preferred bioactive agents include peptides and proteins such as growth factors, *e.g.* Bone Morphogenetic Proteins (BMP), epidermal growth factors, *e.g.* Epidermal Growth Factor (EGF), fibroblast growth factors, *e.g.* basic Fibroblast Growth Factor (bFGF), Nerve Growth Factor (NGF), Bone Derived Growth Factor (BDGF), transforming growth factors, *e.g.* Transforming Growth Factor- β (TGF- β), ~~Transforming~~ Transforming Growth Factor- β 1 (TGF- β 1), human Growth Hormone (hGH) vascular growth factor, and combinations thereof.

After page 36, on new page 37, please insert the following abstract:

--ABSTRACT OF THE DISCLOSURE

The invention relates to the field of medical devices. More in particular, the invention relates to a method for coating by depositing inorganic ions and a bioactive agent to provide sterile medical devices, wherein said coating improves the biocompatibility and/or bioactivity of a medical device, such as an orthopedic or dental prosthesis. Furthermore, the invention relates to a medical device coated with a method according to the invention and to a reactor for use in a method according to the invention.--